



Deeper Web Paper - 2012

Part II :- Subject : Biology

Question Booklet Version
(Write this number on your Answer Sheet)

MHT-CET Roll No.							

Answer Sheet No.				

Question Booklet Sr. No.
(Write this number on your Answer Sheet)

Day and Date :
Tuesday, 08 May 2012

Duration : 12.00 pm to 1.30 pm
Total Marks : 100

This is to certify that, the entries of MHT-CET-12 No. and Answer Sheet No. have been correctly written and Verified

Candidate's Signature

Invigilator's / Parents Signature

Instructions to Candidates

1. This question booklet contains 100 Objective Type Questions in the subjects of Botany (50) and Zoology (50).
2. The question paper and OMR (Optical Mark Recognition) Answer Sheet is issued separately at the start of the examination.
3. Choice and sequence for attempting questions will be as per the convenience of the candidate.
4. Candidate should carefully read the instructions printed on the Question Booklet and Answer Sheet and make the correct entries on the Answer Sheet. As Answer Sheets are designed to suit the OPTICAL MARK RECOGNITION (OMR) SYSTEM, special care should be taken to mark the entries correctly. Special care should be taken to fill QUESTION BOOKLET VERSION, SERIAL No. and **MHT-CET-12 Roll No.** accurately. The correctness of entries has to be cross-checked by the invigilators. The candidate must sign on the Answer Sheet and Question Booklet.
5. Read each question carefully.
6. Determine the correct answer from out of the four available options given for each question.
7. Fill the appropriate circle completely like this ●, for answering a particular question. Mark with **Black ink ball point pen** only.
8. Each answer with correct response shall be awarded **One (1) Mark**. There is **No Negative Marking**. No mark shall be awarded for marking two or more answers of same question, scratching or overwriting.
9. Use of whitener or any other material to erase/hide the circle once filled is not permitted.
10. Avoid overwriting and/or striking of answers once marked.
11. Rough work should not be done on the Answer Sheet.
12. Immediately after the prescribed examination time is over, the Question Booklet and Answer Sheet is to be returned to the invigilator. Confirm that both the candidate and invigilator have signed on Question Booklet and Answer Sheet.
13. No candidate is allowed to leave the examination hall till the paper gets over.

- Q. 11 Leaves of *Adhatoda zeylanica* contain an alkaloid called _____.
- A) alloin
B) vasicine
C) flavonoid
D) nimbin
- Q. 12 How many mitotic divisions are required to form 50 triploid endosperm nuclei?
- A) 250
B) 150
C) 63
D) 50
- Q. 13 In Bt cotton transgene is taken from _____.
- A) *E. coli*
B) *Bacillus thuringiensis*
C) *Agrobacterium tumefaciens*
D) *Hirudo medicinalis*
- Q. 14 A photon of light ray with short wavelength contains _____.
- A) no energy
B) moderate energy
C) less energy
D) more energy
- Q. 15 The first cell of development of male gametophyte is _____.
- A) megaspore
B) microspore
C) generative cell
D) tube cell
- Q. 16 The water is lost in liquid form through hydathodes is called _____.
- A) transpiration
B) bleeding
C) guttation
D) exudation
- Q. 17 The plant species recommended for plantation is _____.
- A) *Osmunda regalis*
B) *Psilotum nudum*
C) *Ophioglossum pendulum*
D) *Tectona grandis*
- Q. 18 Transformation of devernalsed seeds into vernalised seed is called _____.
- A) devernalsization
B) yarovization
C) revernalsization
D) vernalization
- Q. 19 The only 5C compound occurs in Krebs cycle is _____.
- A) oxalosuccinic acid
B) succinyl Co - A
C) α ketoglutaric acid
D) succinic acid
- Q. 20 The female flowers with long and coiled pedicel are found in _____.
- A) *Zostera*
B) *Ceratophyllum*
C) *Vallisneria*
D) *Bryophyllum*

- Q. 31** Which of the following is a poisonous mushroom ?
A) *Amanita caesaria* B) *Agaricus bisporus*
C) *Lycoperdon sp.* D) *Volvariella volvacea*
- Q. 32** A 100 bp long DNA molecule contains 15 deoxyadenylic acid residues. Total number of H-bonds in that DNA molecule will be _____.
A) 200 B) 300
C) 285 D) 385
- Q. 33** Which of the following act as co-factor for hexokinase enzyme during glycolysis ?
A) Mg^{++} B) Fe^{++}
C) Cu^{++} D) Co^{++}
- Q. 34** _____ hormone is useful for closing of stomata during shortage of water.
A) Auxin B) Cytokinin
C) Gibberellin D) Abscissic acid
- Q. 35** Which is the most convenient and cheap method of propagation ?
A) Cutting B) Grafting
C) Budding D) Inarching
- Q. 36** In Hill's reaction, unknown hydrogen acceptor is _____.
A) FAD B) NAD
C) FMN D) NADP
- Q. 37** Apical dominance is counteracted by _____.
A) ethylene B) auxin
C) abscissic acid D) cytokinin
- Q. 38** DPD stands for _____.
A) Diffusion Pressure Deficit B) Diffusion Pressure Dipole
C) Dipole Pressure Deficit D) Diffusion Pressure Difference
- Q. 39** A double layered wall of pollen grain is called _____.
A) exine B) sporoderm
C) intine D) tapetum
- Q. 40** In mushroom cultivation, introduction of basidiospore in compost is called as _____.
A) composting B) casing
C) spawning D) cropping

- Q. 41 " θ " replication takes place in _____.
- A) plants
B) fungi
C) bacteria
D) virus
- Q. 42 The amount of energy available to cell by hydrolysis of ATP is _____.
- A) 3.7 k cal
B) 6.7 k cal
C) 6.3 k cal
D) 7.3 k cal
- Q. 43 Which of the following do **NOT** play any role in photolysis of water ?
- A) Manganese
B) CO_2
C) Chlorophyll - a
D) sunlight
- Q. 44 In plant, root shows _____ growth.
- A) determinate
B) limited
C) indeterminate
D) discontinuous
- Q. 45 Solidifying agent used in tissue culture medium is obtained from _____.
- A) fungi
B) red algae
C) bryophyte
D) blue algae
- Q. 46 _____ inhibits the uptake of K^+ ions and Cl^- ions by changing the permeability of guard cells.
- A) NAA
B) IAA
C) ABA
D) GA_3
- Q. 47 Who maintains red data book or red list ?
- A) IUCN
B) BSI
C) BNHS
D) WWF
- Q. 48 End product of EMP pathway after ETS yields _____.
- A) 38 ATP
B) 30 ATP
C) 15 ATP
D) 8 ATP
- Q. 49 How can we convert genetically dwarf variety of plant in to normal sized variety ?
- A) By application of fertilizers
B) By application of micronutrients
C) By irrigation
D) By application of gibberellins
- Q. 50 *Callistemon* and *Bombax* are _____.
- A) anemophilous flowers
B) hypohydrophilous flowers
C) ornithophilous flowers
D) entomophilous flowers

- Q. 61** In male, _____ is a common passage for the flow of urine and semen.
A) urethra
B) vasa deferentia
C) vasa efferentia
D) ureter
- Q. 62** *Corynebacterium* is used to obtain _____.
A) humulin
B) glycine
C) human gene
D) lysine
- Q. 63** Herring's bodies are present in _____.
A) adenohypophysis
B) pars distalis
C) neurohypophysis
D) pars intermedia
- Q. 64** Which is a marine water fish ?
A) *Sardinella*
B) *Cirrhina mrigala*
C) *Wallago attu*
D) *Catla catla*
- Q. 65** In simple reflex arc, intermediate neuron is located in _____.
A) dorsal root
B) ventral root
C) grey matter
D) white matter
- Q. 66** Adolescence, suffering from anxiety and become conscious about their health, is called _____.
A) neuresthenia
B) hypochondria
C) phobia
D) post traumatic stress disorder
- Q. 67** The decalcification of bones is caused due to _____.
A) hypersecretion of thyroxine
B) hyposecretion of thyroxine
C) hypersecretion of thyrocalcitonin
D) hyposecretion of thyrocalcitonin
- Q. 68** Eosinophilia is _____.
A) excessive acidophils
B) excessive neutrophils
C) excessive basophils
D) excessive leucocytes.
- Q. 69** In chilling method of fish preservation, which system of fish is removed?
A) Digestive system
B) Nervous system
C) Respiratory system
D) Circulatory system
- Q. 70** Process by which egg or ovum is formed in ovary is called _____.
A) oogenesis
B) spermatogenesis
C) ovulation
D) blastulation

- Q. 71** Paracoel are connected to diocoel by _____.
- A) iter
B) foramen of Monro
C) aquiduct of Sylvius
D) metacoel
- Q. 72** Serious thought of suicide is a symptom of _____.
- A) mental health
B) mental illness
C) neuresthenia
D) hypochondria
- Q. 73** _____ hormone is responsible for spermatogenesis.
- A) FSH
B) LTH
C) LH
D) Oxytocin
- Q. 74** Which one of the following is a water borne disease ?
- A) Cholera
B) Malaria
C) Chicken pox
D) Ringworm
- Q. 75** Wernike's area of human brain is concerned with _____.
- A) breathing
B) speech
C) learning
D) vision
- Q. 76** 'Chloromycetin' is an effective drug against _____.
- A) cancer
B) AIDS
C) typhoid
D) leprosy
- Q. 77** Yellow colour of urine is due to _____.
- A) urochrome
B) cytochrome
C) haemocyanin
D) urease
- Q. 78** Which software program has been developed to identify the function of new gene ?
- A) HTML
B) Oracle
C) C++
D) BLAST
- Q. 79** Syngamy is an important stage found in the _____.
- A) asexual reproduction
B) budding
C) sexual reproduction
D) binary fission
- Q. 80** Which of the following disease is known as slim disease ?
- A) Cancer
B) AIDS
C) Typhoid
D) Leprosy

